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METHOD AND APPARATUS TO CONTROL A LOW VOLTAGE FUEL PUMP FROM A HIGH VOLTAGE POWER SOURCE

Abstract

An apparatus and method are presented to dynamically control operation of an engine component, e.g. fuel pump assembly or oil pump assembly, so that the engine component is operable at voltages that exceeds its rated or maximum operational voltage. An engine control monitors the rail voltage provided by an engine's energy source and provides a dynamic control of the engine component to be operable at that rail voltage. In this regard, the engine component is controlled to be operable at voltages exceeding its rated or maximum operational voltage, but is also controlled to be operable at varying voltages that are above its rated maximum.